

Work Order ID 65736

Tuesday, January 25, 2011 10:16:19 AM

Page 1

Item ID: D119-696-011

Accept

Revision ID:

Item Name: Single Cargo Mirror Installation

Start Date: 1/24/2011 Start Qty: 2.00

Required Date: 1/31/2011 Req'd Qty: 2.00

Reference:

Approvals:

Process Plan:

Date: 11-01-25 Tooling:

Date:

QC:

Date: SPC (Y/N):

Date:

Run Start

Stop

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID

Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

Draw Nbr

Revision Nbr

IIN-D119-696

A

100



DC

Document Control

DOCUMENT CONTROL

0.00

Memo

0.00

Photocopy bluefile & type labels per PPP D119-696-011

CHG005

8/1/11/22

for BG 11-01-27 (2)

Pro →

110



Packaging

Packaging

Packaging

Memo

0.00

0.00

11/1/27 SL (2)

120



QC

Quality Control

QC4- 100% Inspect kits for completeness

0.00

Memo

0.00

Sulda

(2)

| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
| | | | | | | | |
| | | | | | | | |

Part No: D119-696-011 PAR #: _____ Fault Category: Prod-Eng Control NCR: Yes No DQA: [Signature] Date: 11/01/27
 Resolution: Doc revised Rev Disposition: Rework QA: N/C Closed [Signature] Date: 11/01/28

| NCR: 65736 | | WORK ORDER NON-CONFORMANCE (NCR) | | | | | | |
|------------|------|---|---------------------------------|---|--------------------------------|--------------------------------|---------------------------------|--------------------------------|
| DATE | STEP | Description of NC Section A | Corrective Action Section B | | | Verification Section C | Approval Chief Eng | Approval QC Inspector |
| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
| 11/01/27 | #110 | Found that ^{when} checking Z17 to w/b that D119-696-041 was missing on parts list. that R.C. not added to Bom. | <u>[Signature]</u> 12/5/14/2 | - ADD D119-696-041 B <u>18131</u> qty = 1 per kit. CPL67003 | <u>[Signature]</u> 11/01/27 | <u>[Signature]</u> 11/01/27 | <u>[Signature]</u> 11/01/27 | <u>[Signature]</u> 11/01/27 |
| | | | <u>[Signature]</u> 12/5/14/2 | - correctly update Bom + w/b ADD copy of Bom as Ref. | | | <u>[Signature]</u> 12/5/14/2 | <u>[Signature]</u> 11/01/27 |
| | | | | | | | | |

NOTE: Date & initial all entries

Work Order ID 65736

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Item ID: D119-696-011

Accept



Setup Start



Revision ID:

Item Name: Single Cargo Mirror Installation

Stop



Start Date: 1/24/2011 Start Qty: 2.00



Cust Item ID:

Required Date: 1/31/2011 Req'd Qty: 2.00



Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Run Start



Stop



| Sequence ID/ Work Center ID | Operation Description | Set Up/ Run Hours | Tool ID | Tool # | Plan Code | Accept Qty | Reject Qty | Reject Number | Insp. Stamp |
|--------------------------------|--|----------------------|---------|--------|--------------|---------------|---------------|------------------|----------------|
| 130 | Packaging | 0.00 | | | | | | | |
| Packaging | Memo | 0.00 | | | | | | | |
| Packaging | Identify and pack for shipping as per PPP D119-696-011 Location: <u>42</u> PPP Rev: <u>NEW</u> | | | | | | | | |
| 140 | QC21- Final Inspection - Work Order Release | 0.00 | | | | | | | |
| QC | Memo | 0.00 | | | | | | | |
| Quality Control | | | | | | | | | |

11/01/27 (2)

11/01/28 (2)

11-01-27 (2)

| | | | |
|-----------------------------------|---------------------|--|-----------|
| DART | | TEL : 1-613-632-3336 FAX : 1-613-632-4443 | |
| TRANSPORT CANADA APPROVAL # 09-89 | | | |
| P/N | D119-696-011 | CHG | CHG003 |
| DESC | Single Cargo Mirror | STC | SR01043SE |
| LOT | B18131 | STC | |
| MODEL | Agusta A119 | STC | |
| MADE IN CANADA | | | |

| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
| | | | | | | | |
| | | | | | | | |

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

| NCR: | | WORK ORDER NON-CONFORMANCE (NCR) | | | | | | |
|------|------|----------------------------------|-----------------------------|---------------------------------|----------------|---------------------------|-----------------------|--------------------------|
| DATE | STEP | Description of NC Section A | Corrective Action Section B | | | Verification Section C | Approval Chief Eng | Approval QC Inspector |
| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
| | | | | | | | | |
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NOTE: Date & initial all entries

Picklist Print

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Work Order ID: 65736

Parent Item: D119-696-011

Parent Item Name: Single Cargo Mirror Installation

Start Date: 1/24/2011





Required Date: 1/31/2011

Start Qty: 2.00

Required Qty: 2.00

Comments: IPP Rev:A new issue DD 10.04.15 verified by:EC
11.01.19 AS PER CHG005 DD VERF:EC

IPP REV:B

| Component Item ID/ Item Name | Replacement Item ID | Mfg/ Purch | Bin Item | Primary Location | Last Location | Route Seq ID | Unit of Measure | Qty on Hand | Qty per Kit | Total Qty | Qty Issued | Date Issued | Status |
|---|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|----------------|-------------|--------------|---------------|----------------------|--------|
| S ₇₂ D2053  Mounting Bracket | | Manufactured | No | | | 110 | Each | 24.0000 | 1 | 2 | | 11/1/27 SP | |
| <div> <div>Location</div> <div>ST005</div> <div>58395</div> </div> <div> <div>Loc Qty</div> <div>24</div> <div>24</div> </div> <div> <div>Loc Code</div> <div></div> <div></div> </div> | | | | | | | | | | | | | |
| S ₇₂ D2067  Connector | | Manufactured | No | | | 110 | Each | 27.0000 | 1 | 2 | | 11/1/27 SP | |
| <div> <div>Location</div> <div>ST006</div> <div>65500</div> </div> <div> <div>Loc Qty</div> <div>27</div> <div>27</div> </div> <div> <div>Loc Code</div> <div></div> <div></div> </div> | | | | | | | | | | | | | |
| S ₇₂ D2071  Cable Assembly | | Manufactured | No | | | 110 | Each | 20.0000 | 1 | 2 | | 11/1/27 SP | |
| <div> <div>Location</div> <div>ST222</div> <div>64744</div> </div> <div> <div>Loc Qty</div> <div>20</div> <div>20</div> </div> <div> <div>Loc Code</div> <div></div> <div></div> </div> | | | | | | | | | | | | | |
| S ₇₂ D3083-1  Placard | | Manufactured | No | | | 110 | Each | 27.0000 | 1 | 2 | | B59759 11/1/27 SP 20 | |
| <div> <div>Location</div> <div>ST036</div> <div>61893</div> </div> <div> <div>Loc Qty</div> <div>27</div> <div>27</div> </div> <div> <div>Loc Code</div> <div></div> <div></div> </div> | | | | | | | | | | | | | |

x 6 stock
de plus

| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
| | | | | | | | |
| | | | | | | | |

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

| NCR: | | WORK ORDER NON-CONFORMANCE (NCR) | | | | | | |
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| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
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NOTE: Date & initial all entries

Picklist Print

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Work Order ID: 65736

Parent Item: D119-696-011

Parent Item Name: Single Cargo Mirror Installation

Start Date: 1/24/2011

Required Date: 1/31/2011

Start Qty: 2.00

Required Qty: 2.00

AN526-1032R9¹ Purchased

No

110 Each

94.0000

4

18



Screw

Location

Loc Qty

Loc Code

ST328

94

113928

1

115422

93

AN960JD10 NAS1149D0363J Purchased

No

110 Each

8.0000

4

18



Washer

Location

Loc Qty

Loc Code

ST

6

107715

6

ST335

2

105792

2

MS21919-DG5¹ Purchased

No

110 Each

52.0000

2

4



Clamp

Location

Loc Qty

Loc Code

ST306

52

114988

8

115698

44

MS27039-1-09 Purchased

No

110 Each

378.0000

4

18



Screw

Location

Loc Qty

Loc Code

ST291

378

111650

349

18057

29

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Shop Packet Print

Page 2

| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
| | | | | | | | |
| | | | | | | | |

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

| NCR: | | WORK ORDER NON-CONFORMANCE (NCR) | | | | | | |
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| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
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| | | | | | | | | |
| | | | | | | | | |

NOTE: Date & initial all entries

Picklist Print

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Work Order ID: 65736

Parent Item: D119-696-011

Parent Item Name: Single Cargo Mirror Installation

Start Date: 1/24/2011

Required Date: 1/31/2011

Start Qty: 2.00

Required Qty: 2.00

MS35489-9

Purchased

No

110

Each

79.0000



Grommet



1

2

11/1/278

E 11.01.26

ALS4

AELS-1032-130

Purchased

No

110

Each

0.0000



INSERT



2

14

M114723 11/1/278 (20)

Location

ST296

Loc Qty

79

8

71

Loc Code

107376

109371

Tuesday, January 25, 2011 10:16:27 AM

Shop Packet Print

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| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
| | | | | | | | |
| | | | | | | | |

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

| NCR: | | WORK ORDER NON-CONFORMANCE (NCR) | | | | | | |
|------|------|----------------------------------|-----------------------------|---------------------------------|----------------|---------------------------|-----------------------|--------------------------|
| DATE | STEP | Description of NC Section A | Corrective Action Section B | | | Verification Section C | Approval Chief Eng | Approval QC Inspector |
| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

NOTE: Date & initial all entries

25.2 CARGO MIRROR REMOVAL

1. Loosen MS21042-3 nut and remove D2071 control cable from D2067 connector.
2. Remove (4) MS27039-1-09 screws and remove D3072-1/-2 brackets. Re-install MS27039-1-08 screws.
3. Remove (2) AN526-1032R9 screws and (2) MS21919DG5 clamps.
4. Remove (2) AN526-1032R9 screws, the D2053 bracket and the D2071 cable assembly. Re-install AN526-1032R9 screws to plug inserts.
5. Seal MS35489-9 grommet hole with PRC / RTV / Proseal 890 / Sikaflex-241 / Sikaflex-291 / MIL-C-8802 Class B2 sealant.

25.3 WEIGHT AND BALANCE

| Installation | Weight | LATERAL | | LONGITUDINAL | |
|---|-------------------|------------------|-------------------------|-------------------|-------------------------|
| | | Arm | Moment | Arm | Moment |
| D119-696-011 Cargo Mirror Installation | 2.2 lb 1.00 kg | 7.0 in 0.28 m | 15.4 in-lb 0.28 m-kg | 22.0 in 0.87 m | 48.4 in-lb 0.87 m-kg |
| D119-696-013 Cargo Mirror Installation | 3.0 lb 1.36 kg | 1.0 in 0.04 m | 3.0 in-lb 0.05 m-kg | 22.0 in 0.87 m | 66.0 in-lb 1.18 m-kg |

25.4 PARTS LIST

| Qty -011 | Qty -013 | Qty -041 | Qty -043 | Part Number | Description |
|-------------|-------------|-------------|-------------|---------------|---|
| X | | | | D119-696-011 | SINGLE CARGO MIRROR INSTALLATION |
| | X | | | D119-696-013 | DUAL CARGO MIRROR INSTALLATION |
| 1 | | X | | D119-696-041 | SINGLE CARGO MIRROR ASSEMBLY |
| | 1 | | X | D119-696-043 | DUAL CARGO MIRROR ASSEMBLY |
| | | 1 | 2 | D2011-101 | MIRROR ASSEMBLY |
| 1 | 1 | | | D2053 | BRACKET |
| | | 2 | 2 | D2054 | BUSHING |
| | | 2 | 2 | D2055 | CLAMP |
| | | 1 | 1 | D2056 | BELL CRANK |
| | | 1 | | D2057 | PLUG |
| 1 | 1 | | | D2067 | CONNECTOR |
| 1 | 1 | | | D2071 | CABLE ASSEMBLY |
| | | 1 | 2 | *D3014-1 | LOCKNUT |
| | | 1 | 1 | D3072-1 | BRACKET |
| | | 1 | 1 | D3072-2 | BRACKET |
| | | 1 | | D3074-1 | ARM |
| | | | 1 | D3074-3 | ARM |
| 1 | 1 | | | D3083-1 | PLACARD |
| 4 | 4 | | | AN526-1032R9 | SCREW |
| 4 | 4 | 6 | 6 | AN960JD10 | WASHER |
| | | 1 | 2 | *AN960JD416L | WASHER |
| | | 3 | 3 | MS21042L3 | NUT (or MS21042-3) |
| 2 | 2 | | | MS21919DG5 | CLAMP |
| 4 | 4 | | | MS27039-1-09 | SCREW |
| | | 3 | 3 | MS27039-1-18 | SCREW |
| 1 | 1 | | | MS35489-9 | GROMMET |
| 2 | 2 | | | AKS7-1032-130 | INSERT (or ALS7-1032-130 or AKS4-1032-130 or ALS7-1032-130 or AELS-032-130) |

*INCLUDED AS PART OF D2011-101 MIRROR ASSEMBLY

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25-00-00